

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE
(REV. 07-2004)

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

18514

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/518893

INTERNATIONAL APPLICATION NO.

PCT/FI2003/000521

INTERNATIONAL FILING DATE

26 June 2003 (26.06.2003)

PRIORITY DATE CLAIMED

27 June 2002 (27.06.2002)

TITLE OF INVENTION

CRYSTALLIZATION OF SUGARS

APPLICANT(S) FOR DO/EO/US

Hannu Koivikko**Heikki Heikkila****Juha Nurmi****Minna Kaarto****Mirja Lindroos**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV492665800US
23. ☒ Other items or information:

Courtesy copy of International Application**Assignee: Danisco Sweeteners Oy of Kantvik, Finland**

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 2em; font-weight: bold; margin-left: 100px;">107518893</div>		INTERNATIONAL APPLICATION NO. <div style="text-align: center; font-weight: bold;">PCT/FI2003/000521.</div>		ATTORNEY'S DOCKET NUMBER <div style="text-align: center; font-weight: bold;">18514</div>	
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24. The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)) : <div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) </div> <div style="width: 15%; text-align: right;"> <div style="font-weight: bold;">\$1110.00</div> <div style="font-weight: bold;">\$950.00</div> <div style="font-weight: bold;">\$790.00</div> <div style="font-weight: bold;">\$750.00</div> <div style="font-weight: bold;">\$100.00</div> </div> </div> <div style="text-align: center; font-weight: bold; margin-top: 10px;"> ENTER APPROPRIATE BASIC FEE AMOUNT = </div>					CALCULATIONS PTO USE ONLY				
					\$1,000.00				
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)). <div style="display: flex; justify-content: flex-end; gap: 20px;"> <input type="checkbox"/> 20 <input type="checkbox"/> 30 </div>					\$0.00				
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE						
Total claims	** 45 - 20 =	25	x \$50.00	\$1,250.00					
Independent claims	** 1 - 3 =	0	x \$200.00	\$0.00					
Multiple Dependent Claims (check if applicable).			<input type="checkbox"/>	\$0.00					
TOTAL OF ABOVE CALCULATIONS =				\$2,250.00					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$0.00					
SUBTOTAL =				\$2,250.00					
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492(f)). <div style="display: flex; justify-content: flex-end; gap: 20px;"> <input type="checkbox"/> 20 <input type="checkbox"/> 30 </div>				\$0.00					
TOTAL NATIONAL FEE =				\$2,250.00					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).			<input type="checkbox"/>	\$0.00					
TOTAL FEES ENCLOSED =				\$2,250.00					
** Claim calculation based on claims amended by Preliminary Amendment being filed concurrently herewith.				Amount to be: refunded	\$				
				charged	\$				

a. ☒ A check in the amount of \$2,250.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.

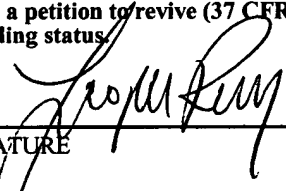
c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-1013

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Leopold Presser
 Registration No. 19,827
SCULLY, SCOTT, MURPHY & PRESSER
 400 Garden City Plaza
 Garden City, New York 11530
 516-742-4343



SIGNATURE

Leopold Presser

NAME

19,827

REGISTRATION NUMBER

December 22, 2004

DATE

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Hannu Koivikko et al.

Docket No.
107518893
18514

Application No.

Unassigned

Filing Date

Herewith

Examiner

Unassigned

Customer No.

23389

Group Art Unit

Unassigned

Invention: **CRYSTALLIZATION OF SUGARS**

I hereby certify that the following correspondence:

Transmittal Letter to the U.S. Designated/Elected Office Concerning Submission under 35 U.S.C. 371 in duplicate*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

December 22, 2004*(Date)***Leopold Presser***(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)***EV492665800US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**